Apply AI techniques to EMC Field Simulation: A Master's Thesis Opportunity at Bosch

The Challenge: Shrinking mobility electronics with increasing functionality create critical EMC challenges. Complex multi-component systems demand innovative simulation approaches that combine classical field solvers with modern AI techniques.

The Opportunity: Join Bosch's EMC Expert Team and TU Darmstadt's TEMF Institute to develop AI-enhanced electromagnetic simulation methods for real eBike applications.

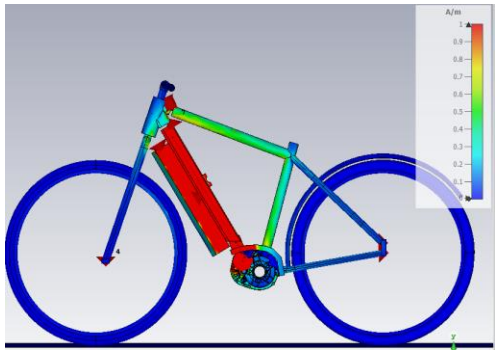
You will:

- Apply AI/ML techniques to accelerate and improve electromagnetic field simulations
- Model and simulate production-relevant eBike EMC radiated emission scenarios
- Master CST Studio Suite and AI frameworks in an industrial context
- Collaborate with experienced EMC engineers and researchers

The specific technical focus will be tailored to your strengths and current project priorities.

Prerequisites: Strong background in electromagnetic field theory, Basic knowledge of EMC, Programming skills (Python/MATLAB), Familiarity with CST Studio Suite, Interest in AI/ML applications

Interested in continuing toward a PhD? Let's discuss opportunities.



Contact:
Prof. Dr.-Ing. Yvonne Späck-Leigsnering
spaeck@temf.tu-darmstadt.de

Industry Professor, TU Darmstadt (TEMF, Computational EMC), Team Lead ME/EMC, Robert Bosch GmbH

BOSCH